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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/782,201	02/14/2001	Seiji Umemoto	Q63077	9861
7590 12/08/2003 SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC 2100 Pennsylvania Avenue, N.W.			EXAMINER DUONG, TAI V	
			2871	
		•	DATE MAILED: 12/08/2001	1

Please find below and/or attached an Office communication concerning this application or proceeding.

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- 6	Application No.	Applicant(s)				
Office Action Summer	09/782,201	UMEMOTO ET AL.				
Office Action Summary	Examiner	Art Unit				
	Tai Duong	2871				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	6(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
1)⊠ Responsive to communication(s) filed on 08 Se	eptember 2003.					
2a)⊠ This action is FINAL . 2b)⊠ This a	action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 1-5,7 and 8 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-5,7 and 8</u> is/are rejected.						
7) Claim(s) is/are objected to.	Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) \square The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. §§ 119 and 120						
12) △ Acknowledgment is made of a claim for foreign a) △ All b) ☐ Some * c) ☐ None of: 1. △ Certified copies of the priority documents 2. ☐ Certified copies of the priority documents 3. ☐ Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list of the since a specific reference was included in the first the since a specific reference was included in the first the since a specific reference was included in the foreign language proving the since a specific reference was included in the first sentence of the reference was included in the first sentence of the	have been received. have been received in Application ty documents have been received (PCT Rule 17.2(a)). If the certified copies not received priority under 35 U.S.C. § 119(e) sentence of the specification or visional application has been received priority under 35 U.S.C. §§ 120	on No d in this National Stage d.) (to a provisional application) in an Application Data Sheet. eived. and/or 121 since a specific				
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Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)						
Notice of References Cited (P10-892) Notice of Draftsperson's Patent Drawing Review (PT0-948) Information Disclosure Statement(s) (PT0-1449) Paper No(s)	5) Notice of Informal Pa	PTO-413) Paper No(s) stent Application (PTO-152)				

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The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 2, 4, 7 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lu et al in view of Kuroda.

Lu et al disclose in Fig. 1 a LCD device similar to that of the instant claims comprising a visual side substrate 30 having a transparent electrode 36, a reflection cholesteric liquid crystal layer 38, a color-imparting layer 18 on a backside transparent resin substrate 12 having a transparent electrode 20 (col. 3, line 26 – col. 4, line 31). Thus, the only difference between the LCD device of Lu and that of the instant is a colored resin substrate being used in place of the color-imparting layer 18 and the transparent resin substrate 12. Kuroda discloses in Figs. 1 and 4 that it was known to employ a transparent substrate 2 with a light absorbing layer 5 or a colored resin substrate 12 having light absorbing function (col. 3, lines 10-22; col. 4, line 1 – col. 6, line 40; col. 7, lines 1-3). Thus, it would have been obvious to a person of ordinary skill in the art in view of Kuroda to employ a colored resin substrate, instead of the color imparting layer and the substrate, in Lu's device for reducing the thickness, the weight and the manufacturing cost of the LCD device (fewer elements as compared to the case of the color imparting layer and the substrate). As to claim 4, Lu et al disclose that it was known to employ a black layer for a high contrast ratio (col. 1, lines 40-42). Thus, it would been obvious to a person of ordinary skill in

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the art to employ a black colored substrate in the LCD cited in the above rejection for obtaining

high contrast ratios.

Claim 3 and 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lu et al

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and Kuroda as applied to claim 2 above, and further in view of Fukuchi et al.

Fukuchi et disclose that it was known to employ a resin substrate not being thicker than 1

mm and having a glass transition of not lower than 90 C for providing sufficient heat resistance

during the required working process (col. 2, lines 49-59; col. 10, lines 23-30). Thus, it would

have been obvious to a person of ordinary skill in the art in view of Fukuchi to select a resin

substrate not being thicker than 1 mm as the colored resin substrate cited in the above rejection

of claim 2 for obtaining a substrate with good mechanical characteristics and lightweight. Also, it

would have been obvious to a person of ordinary skill in the art to select a resin substrate having

a glass transition temperature not lower than the temperatures of the different steps of the process

as the colored resin substrate cited in the above rejection of claim 2 for preventing damages to

the resin substrate.

Applicant's arguments with respect to claims 1 and 2 have been considered but are moot

in view of the new ground(s) of rejection.

Any inquiry concerning this communication should be directed to Tai Duong at telephone

number 703 308-4873.

12/03